PATENT COOPERATION TREATY

| | From the | YOMAI GEARGI | | | WI COOLE | KATION TICE | | | |
|---|---|---|---------------|---------|-------------------|---|--|--|--|
| | INTERNATIONAL SEARCHING AUTHORITY To: LAURENCE J. HYMAN TOWNSEND AND TOWNSEND AND CREW LLP TWO EMBARCADERO CENTER, 8TH FLOOR SAN FRANCISCO, CA 94111 | | | | | PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY | | | |
| | | | | | | · | (PCT Rule 43bis.1) | | |
| | 9 | | - 150 | 00 | OPC | Date of mailing (day/month/year) | 17 NOV 2005 | | |
| | Applicant' | Applicant's or agent's file reference | | | | | FOR FURTHER ACTION See paragraph 2 below | | |
| | 2307O-15PC International application No. International filin | | | | i 1 filim a data | (dayley outh broam) | Priority date (day/month/year) | | |
| | | |). — | ł | _ | | | | |
| | PCT/US04 | | cation (IPC) | | ust 2004 (06.08.2 | | 06 August 2003 (06.08.2003) | | |
| International Patent Classification (IPC) or both national classification and IPC | | | | | | | | | |
| | IPC(7): A01N 1/00 and US Cl.: 435/2 Applicant | | | | | | | | |
| | THE REG | ENTS OF THE U | INIVERSITY | OF CAL | JFORNIA. | | · | | |
| [| | 2113 31 112 3 | | | | | | | |
| | 1. This c | 1. This opinion contains indications relating to the following items: | | | | | | | |
| | | Box No. I | Basis of the | opinion | | | | | |
| 1 | Box No. II Priority | | | | | | | | |
| | Box No. III Non-establishment of opinion with reg | | | | | gard to novelty, inve | ntive step and industrial applicability | | |
| Box No. IV Lack of unity of invention | | | | | | | • | | |
| | Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement | | | | | | | | |
| | | Box No. VI Certain documents cited | | | | | | | |
| | | Box No. VII Certain defects in the international application | | | | | | | |
| | | Box No. VIII Certain observations on the international application | | | | | | | |
| 2. FURTHER ACTION | | | | | | | | | |
| | If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. | | | | | | | | |
| | If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing | | | | | | | | |
| | For further options, see Form PCT/ISA/220. 06/06 | | | | | 105 | Respond to Kritten | | |
| | 3. For fu | urther details, see i | notes to Form | PCT/ISA | , , | | Respond to Hrtten Opinion 636 | | |
| ł | Name and mailing address of the ISA/US Date of compl | | | | | tion of this opinion | Authorized officer | | |
| | N | Mail Stop PCT, Attn Commissioner for Pa | : ISA/US | | 17 October 200 | os (17.10.2005) | Sandra Sauccipal | | |
| | F | P.O. Box 1450 | | | 1, 00.0001 200 | - (2 | / _ / / | | |
| l | | Alexandria, Virginia No. (571) 273-320 | | | | | Telephone No. (571) 272-0926 | | |
| ì | | SA/237 (cover sh | | 05) | | | | | |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/25395

| Box No. I Basis of this opinion | | | | | | | |
|--|--------------|--|--|--|--|--|--|
| | | | | | | | |
| 1. With regard to the language, this opinion has been established on the basis of: | | | | | | | |
| the international application in the language in which it was filed | | | | | | | |
| a translation of the international application into, which is the language of a translation furnished for the purposes international search (Rules 12.3(a) and 23.1(b)). | | | | | | | |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: | | | | | | | |
| a. type of material | | | | | | | |
| a sequence listing | | | | | | | |
| table(s) related to the sequence listing | | | | | | | |
| b. format of material | | | | | | | |
| on paper | | | | | | | |
| in electronic form | | | | | | | |
| c. time of filing/furnishing | | | | | | | |
| contained in the international application as filed. | | | | | | | |
| filed together with the international application in electronic form. | | | | | | | |
| furnished subsequently to this Authority for the purposes of search. | | | | | | | |
| Talmaned subsequently to the state of the st | , | | | | | | |
| In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been or furnished, the required statements that the information in the subsequent or additional copies is identical to that is application as filed or does not go beyond the application as filed, as appropriate, were furnished. | filed the | | | | | | |
| 4. Additional comments: | | | | | | | |
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application, No.
PCT/US04/25395

| Box No. IV Lack of unity of invention | | | | | | |
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| In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit: paid additional fees paid additional fees under protest and, where applicable, the protest fee | | | | | | |
| paid additional fees under protest but the applicable protest fee was not paid | | | | | | |
| not paid additional fees | | | | | | |
| 2. This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees. | | | | | | |
| 3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is | | | | | | |
| complied with | | | | | | |
| not complied with for the following reasons: | | | | | | |
| See the lack of unity section of the International Search Report(Form PCT/ISA/210) | | | | | | |
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| 4. Consequently, this opinion has been established in respect of the following parts of the international application: | | | | | | |
| all parts. | | | | | | |
| the parts relating to claims Nos. <u>1-13</u> | | | | | | |

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/25 155

Box No. V Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement Novelty (N) Claims 4 and 7-10 yes YES Claims 1-3, 5, 6, 11-13 NO Inventive step (IS) Claims 7-10 yes YES Claims 1-6, 11-13 NO Industrial applicability (IA) Claims 1-13 yes YES Claims NONE NO

2. Citations and explanations:

Claims 1-3, 5, 6, 11-13 lack novelty under PCT Article 33(2) as being anticipated by Nakao et al..

The claims are directed to a one step method of disposing an erythrocyte in a hyperosmotic solution, thereby transferring a solute into the cell.

Nakao et al. disclose the one step method of disposing an erythrocyte in a solution comprising hyperosmotic sucrose and then potassium phosphate at a temperature of 37 □C. See page 528, Results and Figures 1 and 3 in particular.

Claim 4 lacks an inventive step under PCT Article 33(3) as being obvious over Eroglu et al..

Eroglu et al. disclose a method of improving survival of cryopreserved mammalian cells by loading the cells with 0.4M trehalose, see Introduction on page 163.

Claims 7-10 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest the limitation therein.

Claims 1-13 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.